Muhammad Omar Ashfaq Khan (Mechanical Engineer)

(+92) 3239015057 | omark7852@gmail.com | www.linkedin.com/in/muh-omar-khan

ABOUT

Innovative Mechanical Engineer with hands-on experience in **Total Productive Maintenance (TPM)**, **Predictive and Preventive Maintenance**, and industry-standard methodologies such as **DMAIC and DMEDI**. Proficient in machine design, and manufacturing processes. Seeking a dynamic role to contribute to cutting-edge projects while growing professionally.

PROFESSIONAL & INTERNSHIP EXPERIENCE

TEAM LEAD |VEHICLE INSPECTION & CERTIFICATION SYSTEM (VICS)
08/2023-07/2024 |RAWALPINDI

- Enhanced equipment reliability and operational continuity through **proactive maintenance** practices and timely troubleshooting of machinery.
- Led and supervised a team of 10 technicians, ensuring full compliance with SOPs while consistently delivering high-quality customer service.
- Maintained accurate and comprehensive maintenance records for generator sets, significantly strengthening asset **management** and lifecycle efficiency.
- Performed routine **inspections** to uphold safe, efficient, and regulatory-compliant operational protocols.

INTERN| FECTO CEMENT LIMITED
05/2023-06/2023 |ISLAMABAD

- Gained practical insights and expertise into plant operations, equipment functionality, and advanced maintenance strategies.
- Developed **predictive and preventive maintenance** skills to enhance machinery reliability and reduce downtime.
- Observed **HSE safety inspections**, promoting secure and efficient operational environments.

EXECUTIVE MECHANICAL ENGINEER |FRIENDS PHARMA PVT. LTD 11/2022-02/2023 |LAHORE

- Enhanced equipment availability and reliability through **predictive maintenance** of pharmaceutical machinery.
- Improved operational efficiency by preparing detailed daily **inspection reports** to monitor performance and initiate timely corrective actions.
- Enforced **HSE protocols** to ensure compliance and maintain a safe working environment during equipment installations and routine operations.

INTERN|HEAVY INDUSTRIES OF TAXILA (HIT)
07/2021-09/2021 |TAXILA

- Performed **CNC machine studies** (practical & theoretical) at Tank Manufacturing Factory (TMF) in **HIT**.
- Programmed and operated CNC machines for precision **milling, turning, and hull alignment.**
- Ensured accuracy by conducting thorough **machining process inspections**.

EDUCATION

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING |HITEC UNIVERSITY
09/2018-09/2022 |TAXILA CANTT

- **Core Engineering Expertise:** Maintenance Engineering, Mechanical Vibrations, Machine Design, Mechanics of Materials, Manufacturing Processes, Workshop Technology, Thermodynamics, Internal Combustion Engines, HSE (Health, Safety, Environment), and Management & Entrepreneurship.

SKILLS

- **Software:** TinkerCAD, Electronic workbench, Dev C++
- **IT Skill: Microsoft Office** (Word, Excel, PowerPoint, etc.)
- **Soft Skills:** Problem-solving, Teamwork and Collaboration, Technical support, Time management, Adaptability, Creativity, Excellent Communication skills, Innovative
- **Languages:** Urdu (Native), English (Fluent)

Technical SKILLS

- Proficient in advanced **NDT techniques**, including Vibration Analysis, Motor Current Analysis, Oil Analysis, Thermography, and Ultrasonic Testing.
- Well-versed in **predictive and preventive maintenance** strategies to ensure equipment reliability and performance.
- Skilled in implementing **Total Productive Maintenance (TPM)** within industrial environments to optimize efficiency.
- Strong practical knowledge of **HSE protocols** to maintain safe equipment operations and secure working environments.
- Experienced in applying **DMAIC** and **DMEDI** methodologies to drive continuous improvement and operational excellence.

FINAL YEAR PROJECT

Designed a lab-scale **manual injection molding machine** to convert plastic waste into reusable products, providing a **sustainable solution for waste management.** This award-winning project, sponsored by HITEC University, showcased innovation and technical precision, earning recognition as the best project.

OTHER BACHELOR'S PROJECTS

- Successfully overhauled and repaired a ceased engine of a 1974 Toyota Corolla, restoring its operational functionality.
- Developed an Arduino-based home automation system to control household devices efficiently.
- Designed and implemented an Arduino-based ultrasonic displacement sensor using TinkerCAD software.
- Programmed and simulated a moving car model using Dev C++ software to demonstrate motion control.
- Engineered a mini-refrigerator prototype for small-scale cooling applications.
- Designed and assembled automated streetlights using a breadboard and electronic components to optimize energy usage.

CERTIFICATIONS

- **TOYOTA 5S METHADOLOGY;** Provided by Indus Motor Company Limited
- **MASTERING 5S AND KAIZEN;** The Toyota Way Program 2023

HOBBIES

- Passionate about sports, I played on my college football and cricket teams, participating in inter college fixtures. This experience sharpened my focus, teamwork, and tactical skills. I continue to play football with local groups embracing cultural diversity.